

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently amended) A coding device comprising:
a coding circuit configured to generate a coded output from a digital input;
an interleaving circuit configured to generate a plurality of interleaved words from said coded output; and
a rate matching circuit for adjusting the number of bits in a data block comprising said plurality of interleaved words, the coded output having a greater number of bits than the digital input, the rate matching circuit having means for adjusting the number of bits in the data block using a rate matching pattern to provide data bits for transmission during respective frames of a transmission channel, and means for selecting the rate matching pattern depending on ~~a-bit deletion/repetition rate~~ an associated, ~~wherein a-bit deletion/repetition~~ deletion or repetition pattern that is selected to ensure that the deleted or repeated bits of the data block are not required to enable all bits from the digital input to be reconstructed.
2. (Canceled)
3. (Currently amended) A coding device as claimed in claim 1, wherein the rate matching pattern for each interleaved word within the data block is offset with respect to the rate matching pattern of an the adjacent interleaved word or words within the block.
4. (Currently amended) A coding device as claimed in claim 1, wherein the rate matching pattern is selected as a function of ~~the~~an interleaving depth of the interleaving circuit.
5. (Cancelled)

6. (Currently amended) A decoding device for decoding a signal coded by a coding device having a rate matching circuit for adjusting the number of bits in a data block, the data block comprising a plurality of interleaved words generated by the action of an interleaving circuit on a coded output generated by the action of a coding circuit on a digital input, the coded output having a greater number of bits than the digital input, the rate matching circuit having means for adjusting the number of bits in the data block using a rate matching pattern to provide data bits for transmission during respective frames of a transmission channel, and means for selecting the rate matching pattern depending on ~~an associated a-bit deletion/repetition rate, wherein a-bit deletion/repetition deletion or repetition pattern that~~ is selected to ensure that ~~the~~ deleted or repeated bits of the data block are not required to enable all bits from the digital input to be reconstructed, said decoding device comprising a data reconstruction circuit for reconstructing the interleaved words, a de-interleaving circuit and a channel decoder.

Claim 7-10 (Cancelled)

11. (Currently amended) The coding device of claim 1, wherein the rate matching pattern forms a matrix including change bits that indicate a change of corresponding bits of said interleaved words within said data block, wherein each row of said matrix includes a maximum of one of said change bits.

12. (Currently amended) The coding device of claim 1, wherein said coding circuit has one of: (a) a fixed code rate and (b) a predetermined number of rates for a variable data source.

13. (Previously presented) The coding device of claim 1, wherein said interleaving circuit is not adaptive.

14. (Currently amended) The coding device of claim 1, wherein said interleaving circuit has a constant input bit rate.

15. (Currently amended) The coding device of claim 1, wherein said coding circuit has one of: (a) a fixed code rate and (b) a predetermined number of rates for a variable data source, and wherein said interleaving circuit

16. (Currently amended) The coding device of claim 1, wherein said rate matching circuit alters a coding rate of said coding circuit according to the bit deletion or repetition pattern.

17. (Currently amended) A decoding device for decoding a coded digital signal comprising a received data block including interleaved words, said received data block having been processed by a rate matching circuit using a rate matching pattern to adjust a number of bits in said received data block, the decoding device comprising:

a data reconstruction circuit having means for adjusting the number of bits in said received data block to reverse action of said rate matching circuit, thereby reconstructing said interleaved words;

a de-interleaving circuit having means for generating each of said interleaved words; and
a channel decoder which receives said interleaved words provided by said de-interleaving circuit;

wherein said rate matching pattern is selected as a function of a bit deletion/repetition rate, a bit deletion/repetition deletion or repetition pattern having been selected to ensure that the deleted or repeated bits of the received data block are not required to enable all bits from the digital input to be reconstructed.

18. (Currently amended) The decoding device of claim 17, wherein change bits of said rate matching pattern includes change bits for deleting or repeating bits of said data block and the change bits are offset with respect to the each other along adjacent rows or columns of a matrix of said rate matching pattern.

19. (Currently amended) A method of decoding a coded digital signal comprising a received data block including interleaved words, said received data block having

been processed by a rate matching circuit using a rate matching pattern to adjust a number of bits in said received data block, the method comprising:

adjusting the number of bits in said received data block to reverse action of said rate matching circuit, thereby reconstructing said interleaved words;

generating each of said interleaved words; and

receiving said interleaved words;

wherein said rate matching pattern is selected as a function of a bit ~~deletion/repetition deletion or repetition rate~~, a bit ~~deletion/repetition deletion or repetition~~ pattern having been selected to ensure that ~~the deleted or repeated bits of the received data block~~ are not required to enable all bits from the digital input to be reconstructed.

20. (Currently amended) The method of claim 19, wherein ~~change bits~~ of said rate matching pattern includes change bits for deleting or repeating bits of said data block and said change bits are offset with respect to ~~the~~ each other.

21. (Currently amended) The method of claim 19, wherein ~~change bits~~ of said rate matching pattern includes change bits for deleting or repeating bits of said data block and said change bits are offset with respect to ~~the~~ each other along adjacent columns of a matrix of said rate matching pattern.

22. (Currently amended) The method of claim 19, wherein ~~change bits~~ of said rate matching pattern includes change bits for deleting or repeating bits of said data block and said change bits are offset with respect to ~~the~~ each other along adjacent rows of a matrix of said rate matching pattern.

23. (Currently amended) The method of claim 19, wherein ~~change bits~~ of said rate matching pattern includes change bits for deleting or repeating bits of said data block and said change bits are offset with respect to ~~the~~ each other along adjacent rows and columns of said rate matching pattern.

24. (Currently amended) The method of claim 19, wherein said received data block ~~are-is~~ formed by filling a matrix row by row with row bits of said coded output and ~~outputs~~ ~~outputting~~ column bits of said matrix column by column to form said interleaved words.

25. (Currently amended) A method of coding a digital signal comprising:
generating a coded output from a digital input;
~~generating generate~~ a plurality of interleaved words from said coded output; and
adjusting the number of bits in a data block comprising said plurality of interleaved words using a rate matching pattern to provide data bits for transmission during respective frames of a transmission channel; and
selecting the rate matching pattern depending on a bit ~~deletion/repetition-deletion or repetition rate, wherein a bit deletion/repetition-deletion or repetition~~ pattern is selected to ensure that ~~the~~ deleted or repeated bits of the data block are not required to enable all bits from the digital input to be reconstructed.

26. (Currently amended) The method of claim 25, wherein ~~change bits of~~ said rate matching pattern includes change bits for deleting or repeating bits of said data block and said change bits are offset with respect to each other.

27. (Currently amended) The method of claim 25, wherein ~~change bits of~~ said rate matching pattern includes change bits for deleting or repeating bits of said data block and said change bits are offset with respect to ~~the~~ each other along adjacent columns of a matrix of said rate matching pattern.

28. (Currently amended) The method of claim 25, wherein ~~change bits of~~ said rate matching pattern includes change bits for deleting or repeating bits of said data block and said change bits are offset with respect to ~~the~~ each other along adjacent rows of a matrix of said rate matching pattern.

29. (Currently amended) The method of claim 25, wherein ~~change bits of~~ said rate matching pattern includes change bits for deleting or repeating bits of said data block and

said change bits are offset with respect to ~~the~~ each other along adjacent rows and columns of said rate matching pattern.

30. (Currently amended) The method of claim 25, wherein data block ~~are-is~~ formed by filling a matrix row by row with row bits of said coded output and outputting ~~outputs~~ column bits of said matrix column by column to form said interleaved words.